IVX E-Class Installer worksheets

Function 1: System parameters

Important: **Before** programming, make sure you initialize the system!

F11 — Initialization

F12 — Installer password

Range: 2–8 digits. Default: 789.

F13 — Administrator password

Range: 2–8 digits. Default: 456.

F14 — Set time/date

F141: Set time and date

F142: Automatic time settings

Synchronize with Caller ID

Default: Enabled.

Adjust for Daylight Savings Time

Default: Enabled.

F15 — System timing parameters

F151: Flash hook duration

Range: 0.2–2.0 sec. Default: 1.5 sec.

F152: Transfer forward timer

Range: 1–9 rings. Default: 3.

F153: Recall timers

F1531: Exclusive hold recall timer

Range: 5–960. Default: 60.

F1532: Hold recall timer

Range: 5–960. Default: 60.

F154: ACD exit timer

Range: 0,5–600 (0 = no limit). Default: 180.

F155: ACD wrap timer

Range: 0,5–600 (0 = no limit). Default: 0.

F156: Cell phone delay

Range: 0–50 (0.0–5.0 sec). Default: 1.0.

F16 — System feature parameters

F161: Recording alert tone
Default: Disabled.

F162: Connect tone
Default: Enabled.

F163: Feature set activation

1. Group listen
Default: Disabled.

2. Privacy release
Default: Disabled.

3. Headset microphone gain adjust
Range: 0–5. Default: 2.

F164: Esi-Link location number/line-group access selection
Defaults refer to when Esi-Link is installed.

Access number	*(Check one)* Location prefix (Default: Off)	Line group number (Default: On)
71		
72		
73		
74		
75		
76		

F165: Auto attendant parameters

1: Auto attendant inter-digit timer
Range: 40–1000 (400 ms to 10 sec.). Default: 300 (3 sec.).

2: Auto attendant no-response timer
Range: 50–6000 (500 ms to 1 min.). Default: 300 (3 sec.).

3: ACD beep
Range: 0–1 (1 = disabled). Default: 1 (disabled).

4: Fax energy level (CNG tone)
Range: 1–32767. Default: 70.

5: Name key digits
Range: 1–3. Default: 3.

F166: CO parameters

1: CO-to-CO conference gain
Range: 100–32767. Default: 2048.

2: ARS inter-digit timer
Range: 40–1000 (400 ms to 10 sec.). Default: 300 (3 sec.).

3: CO playback gain
Range: 1–12. Default: 6.

4: Trunk-to-trunk CO gain
Range: 1–12. Default: 10.

5: Delay before connection "beep-beep"
Range: 10–100 (100 ms to 1 sec.). Default: 20 (200 ms).

6: Caller ID gain
Range: 1–32767. Default: 20000.

7: PRI minimum digits for local number
Options: 7, 10. Default: 10.

F167: Voice mail parameters

1: Energy threshold
Range: 0–65535. Default: 500.

2: Recording silence value
Range: 200–3000 (2–30 sec.). Default: 350 (3.5 sec.).

3: Maximum message length (minutes)
Range: 2–20. Default: 3.

4: Page glare value
Range: 0–15. Default: 2.

5: Maximum messages in Message Recycle Bin
Range: 2–40. Default: 10.

6: Unified messaging playback timeout
Range: 0–20 (sec.). Default: 4.

F169: Feature set activation

Tenant service
Default: Disabled.

Tenant 1 ***Name*** ______________________

Tenant 2 ***Name*** ______________________

F17 — System speed-dial

(Use the worksheet on the following page.)

F18 — Serial port baud rate

1: Output device
Options: None, Serial, Ethernet.

2: Serial baud rate
Options: 300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200.
Default: 38400.

3: SMDR format
Options: Standard or CSV. Default: Standard.

F17 — System speed dial

Loc.	Name	Number
600		
601		
602		
603		
604		
605		
606		
607		
608		
609		
610		
611		
612		
613		
614		
615		
616		
617		
618		
619		
620		
621		
622		
623		
624		
625		

(Use a blank sheet for additional speed dial numbers 626–699.)

Function 2: CO lines

F21 — CO line programming

Options: Analog CO line (1), T1 CO line (2), PRI CO line (3).
Default answer ring assignment for CO lines: ID1

F211: Analog CO line programming

Mode: ____________ (day, night).

	Circuit	CO	Name	Tenant[1]	Line group	Ring 1	Ring 3	Ring 5	Ring 9
Slot #___	1								
Card type:	2								
	3								
	4								
	5								
	6								
Slot #___	1								
Card type:	2								
	3								
	4								
	5								
	6								
Slot #___	1								
Card type:	2								
	3								
	4								
	5								
	6								
Slot #___	1								
Card type:	2								
	3								
	4								
	5								
	6								

Make copies of this sheet for additional lines.

[1] IVX E-Class Generation II only.

F212: DLC 12 programming for T1

F2121: CO line programming

Programming of loop start, ground start or E&M trunks

Outgoing signal type **Default: Wink start.**	
Incoming signal type **Default: Wink start.**	
Trunk mode **Default: 2-way traffic.**	
Dial tone transmit **Default: Off.**	
Ringback transmission **Default: Off.**	

Programming of E&M DNIS/DID

Outgoing signal type **Default: Wink start.**	
Incoming signal type **Default: Wink start.**	
Trunk mode **Default: 2-way traffic.**	
Dial tone transmit **Default: Off.**	
Ringback transmission **Default: Off.**	

Important: Standard ring assignments are used for loop and ground-start trunks. E&M can be answered only by an ID branch, and E&M DID uses the translation table programmed in Function 224.

Configuration mode (day, night): ____________.

Frame format: ____________

Default: ESF/B8ZS.

Carrier name: ______________________________

Number: __________________________________

Slot	*Channel*	*CO port*	*Name*	*Tenant*[1]	*Protocol*	*Line group*	*Ring 1*[*]	*Ring 3*[*]	*Ring 5*[*]	*Ring 9*[*]
	1									
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									

Make a copy of this sheet for a second DLC 12 (T1).

[1] IVX E-Class Generation II only.
[*] Does not apply when using E&M DNIS/DID protocol.

F2122: T1 frame format and line coding

Default: ESF/B8ZS.

DLC 12 (T1) #1	
DLC 12 (T1) #2	

F2123: Line build-out

Default:1.

DLC 12 (T1) #1	
DLC 12 (T1) #2	

F2124: CSU emulation

Default: Off.

DLC 12 (T1) #1	
DLC 12 (T1) #2	

F213: DLC 12 (PRI) line programming

F2131: PRI CO line programming

Important: CO answer ring assignments are used only when DID is disabled. With DID enabled, calls will be routed according to the pilot number or DID tables.

Configuration mode (day, night): ____________.

Switch protocol: _____________

Carrier name: ________________________________

Number: ______________________________________

Framing: ESF/B8ZS.

Slot	*Chnl.*	*CO port*	*Dial tone transmit on/off*	*Ringback transmit on/off*	*Name*	*Tenant[1]*	*Line grp.*	*Ring 1[*]*	*Ring 3[*]*	*Ring 5[*]*	*Ring 9[*]*
	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21										
	22										
	23										

[1] IVX E-Class Generation II only.
[*] Does not apply when DNIS/DID is enabled.

Make a copy of this sheet for a second DLC 12 (PRI).

F2132: Line build-out

Default: 1.

DLC 12 (PRI) #1	
DLC 12 (PRI) #2	

F2133: CSU emulation

Default:1.

DLC 12 (PRI) #1	
DLC 12 (PRI) #2	

F2134: Switch protocol

Options:
- **Nortel — DMS 100**
- **ATT/Lucent — 5ESS**
- **National/NI2 — Default**
- **Siemens — EWSD**

Note: Most switches can emulate the various protocols. Be sure to make your selection based on the protocol being used rather than the switch manufacturer. NI2 is the only protocol that supports name-and-number CID.

F2135: DID enable/disable

Default: Disabled.

F22 — Access codes/toll restriction

F221: Centrex/ PBX access codes

Line group 9 **Default: 0.**	
Line group 8 **Default: 0.**	
Line group 71 **Default: 0.**	
Line group 72 **Default: 0.**	
Line group 73 **Default: 0.**	
Line group 74 **Default: 0.**	
Line group 75 **Default: 0.**	
Line group 76 **Default: 0.**	

F222: Toll restriction exception tables

Allow numbers (maximum, 100 entries):

Deny numbers (maximum, 100 entries):

F223 — Automatic route selection (ARS)

Enabled/disabled

Default: Disabled.

If enabled:

Fixed (ARS tables 1 and 2)

ARS table	Line groups	OCC	Numbers
1	9		7 or 10 digits, information
2	8		1+, 0+, 01+, 011+, or 101XXXX
3			
4			
5			
6			
7			
8			
9			
10			

F224 — DID and DNIS translation table

DID or DNIS digits	Name	Day translation	Night translation

Make copies of this sheet for additional lines.

F225 — Pilot number table

				Day				Night			
Entry no.	Number	Name	Max chs.	Ring 1*	Ring 3*	Ring 5*	Ring 9*	Ring 1*	Ring 3*	Ring 5*	Ring 9*
1											
2											
3											
4											
5											

F23 — CO line parameters

F231: Line receive volume

Range: 0–12. Default: 10.

F232: Line disconnect

Range: 1-255. Default: 6.

F233: T1 line receive volume

Range: -28 dB to 6 dB. Default: -6 db.

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	

* Applies only when DNIS/DID is enabled.

F234: PRI line receive volume

Range: -28 dB to 6 dB. Default: -6 db.

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	

	Circuit	Volume
Slot #:	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
	15	
	16	
	17	
	18	
	19	
	20	
	21	
	22	
	23	

F24 — Caller ID

Options: Enabled, disabled. Default: Disabled.

Local – **7**:

Local – **10**:

Function 3 : Extension programming

F31 — Extension definition and routing

For Digital Feature Phones

		Ext.	Type	Name	Tenant[1]	CO line groups	CF day	CF night	Pg zone	Ext.
		0		**Operator**						
Slot #:	1									
	2									
Card type:	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
Slot #:	1									
	2									
Card type:	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									

Make copies for additional extensions.

(Continued on wide-format pages)

[1] IVX E-Class Generation II only.

For IP Feature Phones (local)

		Ext	Type	MAC	Name	Tenant[1]	CO	CF day	CF night	Pg zone
Slot #:	1			00304D______						
	2			00304D______						
Card Type: LNC	3			00304D______						
	4			00304D______						
	5			00304D______						
	6			00304D______						
	7			00304D______						
	8			00304D______						
	9			00304D______						
	10			00304D______						
	11			00304D______						
	12			00304D______						

[1] IVX E-Class Generation II only.

Extension programming for ONLY Remote IP Feature Phones

(See also Function 31, page 16 of these worksheets.)

	Ext	Type	IP address	MAC	Gateway IP	UDP port	Remote-access IP address	Name	Tenant[1]	CO	CF day	CF night
Slot #:				00304D_______								
				00304D_______								
Card Type: LNC/ RNC				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								
				00304D_______								

[1] IVX E-Class Generation II only.

F32 – Extension feature authorization

Card type	Ext.	Name	Call wait	DND	AA block	Rec.	Ser. ob.	Toll allow	Sys. spd. dl.	Auto Page	Ext. fwd.	Fwd. toll	Trunk-trunk	Unif'd msg.
______	Default		Y	Y*	N	Y*	N*	Y	Y	Y	Y	N	Y	N
1														
	Ser. ob. list:													
2														
	Ser. ob. list:													
3														
	Ser. ob. list:													
4														
	Ser. ob. list:													
5														
	Ser. ob. list:													
6														
	Ser. ob. list:													
7														
	Ser. ob. list:													
8														
	Ser. ob. list:													
9														
	Ser. ob. list:													
10														
	Ser. ob. list:													
11														
	Ser. ob. list:													
12														
	Ser. ob. list:													

***** Does not apply to analog extensions.

Make copies of this sheet for additional extensions.

F33 – Department programming

Dept. types: In Order, All, UCD, ACD, Pick-Up.

Dept. ext.	Name	Tenant[1]	Type	CF day	CF night
290					
Ext. List:					
291					
Ext. List:					
292					
Ext. List:					
293					
Ext. List:					
294					
Ext. List:					
295					
Ext. List:					
296					
Ext. List:					
297					
Ext. List:					
298					
Ext. List:					
299					
Ext. List:					

[1] IVX E-Class Generation II only.

F35 – Extension button mapping

See “Function 35: Extension button mapping” in *IVX E-Class Installation Manual* for button default based on the system configuration.

For 48-Key Feature Phone or 60-Key Expansion Console

(Continued)

F35 – Extension button mapping (continued)

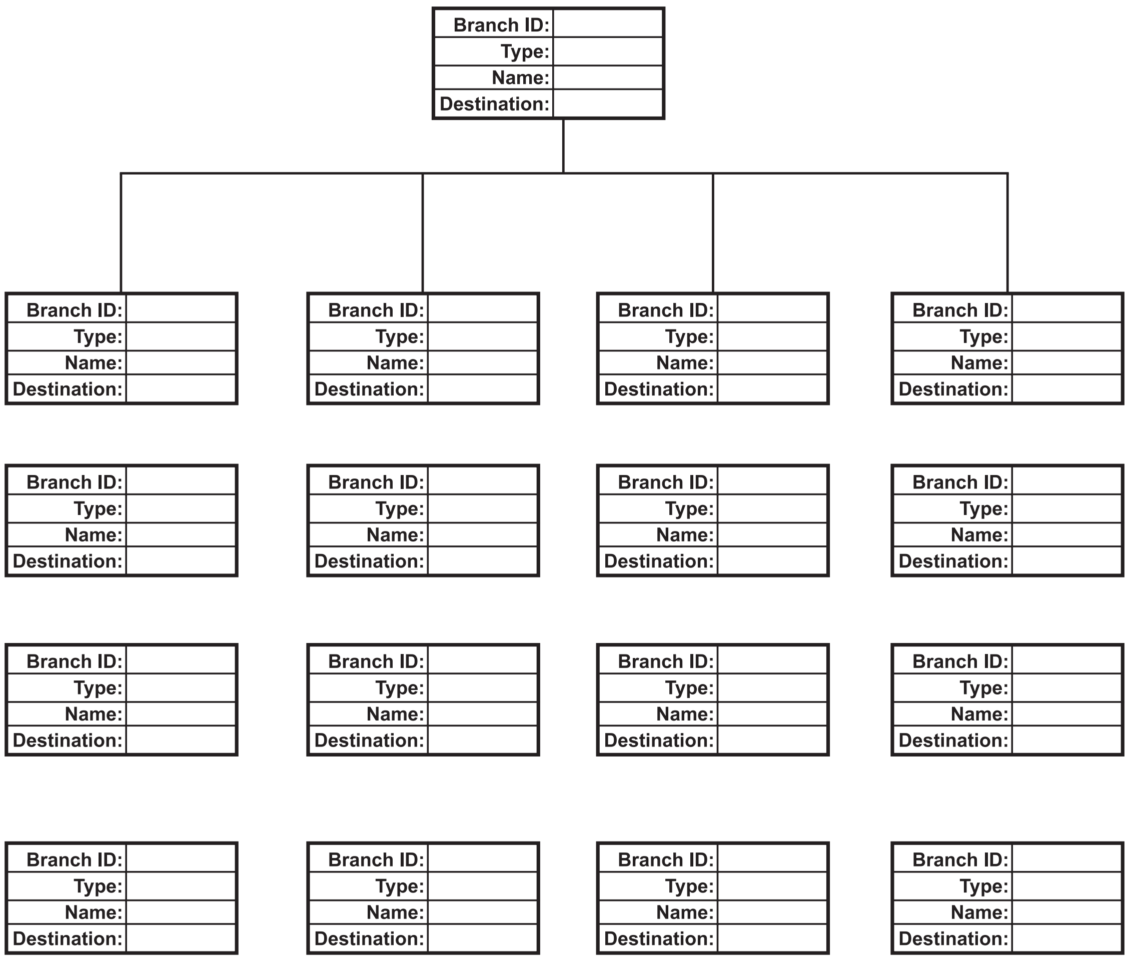
For 24-Key Feature Phone

For 12-Key Feature Phone

Function 4 : Auto attendant programming

F41 – Auto attendant branch programming

Day ☐
Night ☐



Copy this page; you'll need one for day mode and one for night mode.

F42 — Announce extension number

Options: Enabled, disabled. Default: Enabled

F43 — Automatic day/night tables

Important: Program using **24-hour** format.

Tenant:[1] ___________

	MON		TUE		WED		THU		FRI		SAT		SUN	
	Start time	Mode	Start time	Mode	Start time	Mode	Start time	Mode	Start time	Mode	Start time	Mode	Start time	Mode
1														
2														
3														
4														
5														
6														

[1] IVX E-Class Generation II only. If shared-office tenanting is enabled, make a copy of this page for additional tenants.

Function 5: Voice mail programming

F51 — Maximum message and record length

Message length. **Range 1–30 min. Default: 3**

Record length. **Range 1–120 min. Default: 10**

Message length	
Record length	

F52 — Message purge control

Range: 0–365 days (0 = no purge). Default: No purging.

New messages	
Old messages	
Group messages	
Recordings messages	
Deleted messages	

F53 — Guest / info mailboxes

Use form on following page to record entries.

F53 — Guest/info mailboxes

MB	Name	Type	CFWD Day *	CFWD Night *

Make copies for additional mailboxes.

* CFWD Day and CFWD Night do not apply to guest mailboxes.

F54 — Group mailboxes

	501	502	503	504	505	506	507	508
Members								

F54 — Group mailboxes *(continued)*

	509	510	511	512	513	514	515	516
Members								

F55 — Message notification

F551: Station delivery options

	Mailbox		Number	Delay	Attempts	Interval	Quiet on	Quiet off
	Range	Phone	Up to 24 digits	0–500	0–99	10–1,440	None	None
	Range	Pager	Up to 24 digits	0–500	0–99	10–1,440		
	Default	Phone	None	0	3	30	None	None
	Default	Pager	None	0	3	30		
1		Phone						
		Pager						
2		Phone						
		Pager						
3		Phone						
		Pager						
4		Phone						
		Pager						
5		Phone						
		Pager						
6		Phone						
		Pager						
7		Phone						
		Pager						
8		Phone						
		Pager						
9		Phone						
		Pager						
10		Phone						
		Pager						
11		Phone						
		Pager						
12		Phone						
		Pager						

Make copies for additional mailboxes

F552: Delivery/paging parameters

CO line access
Range: 9, 8, 71–76. Default: 9.

Maximum lines
Range: 1–19. Default: 1.

Pager dialing pause
Range: 0–20. Default: 6.

F56 — Cascade paging mailboxes

Attempts — Range: 0–99. Default: 0.
Paging interval — Range: 0 (page only once)–1,440. Default: 0.

	Option 1					Option 2
Mailbox	1st number	Attempts	2nd number	Attempts	3rd number	Paging interval
520						
521						
522						
523						
524						
525						
526						
527						
528						
529						

F57 — Q & A mailboxes

Mailbox	Name	CFWD Day	CFWD Night
Default	MB Number	ID9999	ID9999
490			
491			
492			
493			
494			
495			
496			
497			
498			
499			

F58 — Message move and delete

Options: Enabled, disabled. Default: Disabled.

Function 6: Recordings

F61 — Re-recordable prompts

Prompt	Type	Default	Re-recorded
530	Busy prompt	☐	☐
531	No answer	☐	☐
532	Hold	☐	☐
534	Q/Z	☐	☐
535	No names matched	☐	☐
537	End of recording	☐	☐
538	ACD queue	☐	☐
539	ACD hold	☐	☐
540	Holiday main greeting	☐	☐

F62 — Record directory names

(Use the worksheet on the following page.)

Prompt for first name/last name

Options: "Select by first name" (default); "Select by last name."

F63 — Message-on hold-programming

F631: MOH source[1]

Range: 590–598. Default: 592

F632: MOH recording

(See *Installation Manual* for instructions.)

F633: MOH volume

Range: 1–12. Default: 6

[1] If tenant service is enabled (IVX E-Class Generation II only), only Tenant 1's MOH source can be selected. See *IVX E-Class Installation Manual* for instructions.

F62 — Record directory names

Extension	Recorded name	Keys

(Use a blank sheet for additional extensions.)

Function 8 — IP PBX programming

Function 82 — Local programming

F821: Program local IP PBX

IP PBX private IP address Default: 192.168.428.1	___ . ___ . ___ . ___
MAC address	00304D______
PBX gateway IP	___ . ___ . ___ . ___
Remote-access IP	___ . ___ . ___ . ___
Base UDP port Default: 59.	__000

F822: Starting local IP phone address Default: 192.168.248.2.	___ . ___ . ___ . ___
F823: Number of remote channels Range: 1–12.	

F824: Network Services Processor (NSP)

NSP private IP address Range: 1.0.0.1 – 254.254.254.254.	___ . ___ . ___ . ___
NSP subnet mask Range: 0.0.0.0 – 255.255.255.252.	___ . ___ . ___ . ___
NSP gateway Range: 1.0.0.1 – 254.254.254.254.	___ . ___ . ___ . ___
NSP public IP address Range: 1.0.0.1 – 254.254.254.254.	___ . ___ . ___ . ___
Unified messaging e-mail server [1] Range: 1.0.0.1 – 254.254.254.254.	___ . ___ . ___ . ___
Unified messaging e-mail address[1]	@

[1] This will appear only if *VIP* unified messaging has been installed on the system.

Function 83 — Esi-Link programming

F831: Local location number

7__

F832: Esi-Link location

Location number	7__
Location name	__________
Abbreviation	___
PBX private IP	___ . ___ . ___ . ___
MAC address	00304D______
Remote-access IP	___ . ___ . ___ . ___
Base UDP port	__001

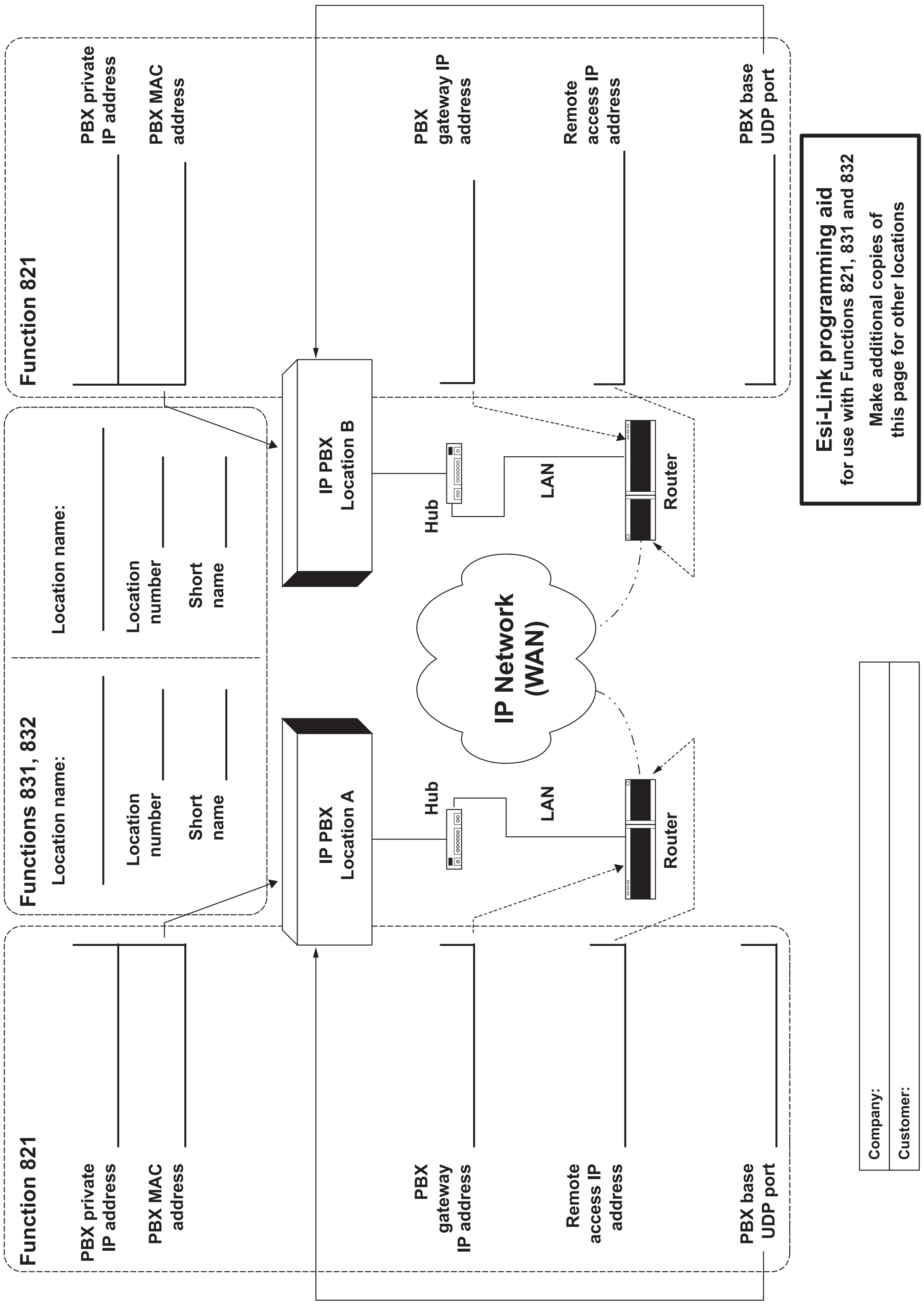
F833: Deleting an Esi-Link location

(See *Installation Manual* for instructions.)

Make copies of this page for multiple Esi-Link locations.

Function 834: Programming the Esi-Link publish list

	Extension, mailbox, or group mailbox
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	


Function 821
PBX private IP address
PBX MAC address
PBX gateway IP address
Remote access IP address
PBX base UDP port
Functions 831, 832
Location name:
Location number
Short name
Location name:
Location number
Short name
IP PBX Location A
IP PBX Location B
Hub
LAN
Router
IP Network (WAN)
Function 821
PBX private IP address
PBX MAC address
PBX gateway IP address
Remote access IP address
PBX base UDP port
Esi-Link programming aid
for use with Functions 821, 831 and 832
Make additional copies of this page for other locations
Company:
Customer: